

6 December 1999

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Synthesis and some reactions of 2-sulfito-3-alkylthieno- and 2-sulfito-3-penzothienothiazolum betaines. Astrakhanseva, N. I.; Zhnyakov, V. G.; Abramenko, P. I. USSR, Sb. Nauch. Tr. Vses. N.-i. Proekt. Inst. Koltz.-Fotogr. Prom-sti (1976), (23), 5-15. From: Ref. Zh. Khim. Khim. 1977, Abstr. No. 2227372. Journal written in Russian. CAN 88:91028 AN 1978:91028 CAPLUS

## Abstract

Title only translated.

Indexing – Section 40-7 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)

## Dyes

(thienothiazolum and benzothienothiazolum sulfio derivs. in prepn. of)

247-28-9DP, betaine sulfio derivs.  
247-53-0DP, betaine sulfio derivs.  
251-23-0DP, betaine alkyl sulfio derivs.  
251-43-4DP, betaine alkyl sulfio derivs.  
Role: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation)  
(prep. and reactions of, in methine dye synthesis)

## Supplementary Terms

thienothiazolum sulfio deriv dye; benzothienothiazolum sulfio deriv dye; sulfothienothiazolum dye

Answer 3:

## Bibliographic Information

Polymethine dyes containing the radicals of 4,5-[5'-phenylthiophene(2',3')]-2-thiazole. Abramenko, P. I.; Zhnyakov, V. G.; Semnikova, N. I.; Krylova, M. V.; Kurepina, G. F.; Tashcheva, G. F. (All-Union Scientific-Research Institute of the Photographic Chemical Industry). U.S.S.R. (1972). CODEN: URXXAF SU: 322167 19721103 Patent written in Russian. Application: SU 19690409. CAN 78:93051 AN 1973:93051 CAPLUS

Patent Family Information.....

## Abstract

Polymethine dyes I ( $\text{Y} = 4,5\text{-}[5'\text{-phenylthiophene}(2',3')]-2\text{-thiazole}$  radical,  $\text{Z} = \text{Y}$  or a 5- or 6-membered heterocycle or 3,3-dimethylindoline; benzothiazole, benzoxazole, benzoselenazole, or their derivs.;  $\text{R}_1\text{R}_1 =$  substituted or unsubstituted alkyl, arylalkyl, aryl;  $\text{R}_2 = \text{H}$ , alkyl, arylalkyl, aryl,  $\text{X} = \text{acid radical, } n = 1 \text{ or } 2$ ) and II ( $\text{R}_3 =$  unsubstituted or substituted alkyl, arylalkyl, aryl) were prepared by the condensation of intermediates used in the synthesis of polymethine dyes with quaternary salts of 2-methyl-4,5-[5'-phenylthiophene(2',3')thiazole.

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IPC: G03C; C09B.

Indexing – Section 40-7 (Dyes, Fluorescent Whitening Agents, and Photosensitizers)

Dyes, cyanine  
(thienothiazole derivs.)

41339-32-6

Role: USES (Uses)  
(cyanine dyes from)



Supplementary Terms

polymethine dye; thienothiazole polymethine dye; selenazole benzo dye